

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P292403

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-40-A125-UNV-L82765-W2A1-U-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3964.0 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

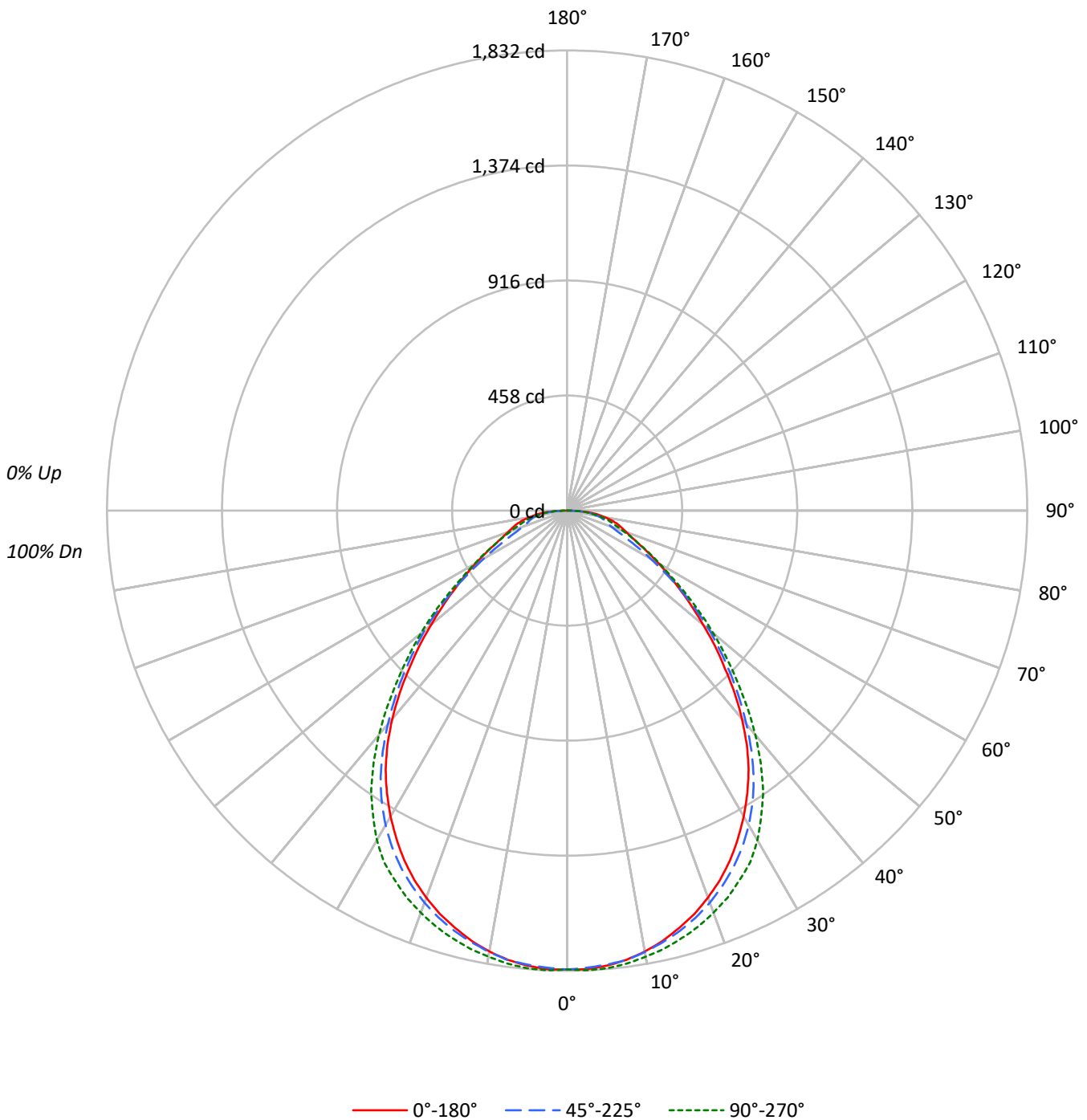
Input Watts (W): 32.55  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86					86			
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74					74			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4917	4917	4917
5°	4913	4901	4941
10°	4871	4877	4927
15°	4794	4828	4910
20°	4695	4756	4878
25°	4558	4651	4822
30°	4368	4492	4707
35°	4138	4254	4469
40°	3805	3899	4094
45°	3380	3503	3630
50°	2952	3087	3180
55°	2567	2601	2697
60°	2258	2069	2303
65°	2007	1654	2018
70°	1971	1469	1862
75°	2152	1615	1903
80°	2363	1918	2033
85°	2825	2226	2282



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.7	4.4
10°-20°	489.7	12.4
20°-30°	723.0	18.2
30°-40°	809.0	20.4
40°-50°	710.4	17.9
50°-60°	502.7	12.7
60°-70°	292.6	7.4
70°-80°	182.4	4.6
80°-90°	81.6	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1385.4	34.9
0°-40°	2194.4	55.4
0°-60°	3407.5	86.0
0°-90°	3964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3964.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1819	1814	1814	1824	1829	172
15°	1721	1725	1733	1751	1762	485
25°	1535	1542	1567	1604	1624	705
35°	1260	1265	1295	1334	1360	783
45°	888	898	920	943	954	687
55°	547	558	554	565	575	495
65°	315	290	260	283	317	320
75°	207	178	155	159	183	216
85°	92	95	72	70	74	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1827.2	1827.2	1827.2	1827.2	1827.2
2.5°	1827.2	1823.5	1821.7	1828.1	1831.8
5°	1818.9	1814.3	1814.3	1823.5	1829.1
7.5°	1804.1	1799.5	1805.0	1813.3	1818.9
10°	1782.8	1781.0	1784.7	1795.8	1803.2
12.5°	1755.1	1756.0	1759.7	1777.3	1786.5
15°	1720.9	1724.6	1732.9	1751.4	1762.5
17.5°	1684.0	1686.7	1699.7	1720.9	1736.6
20°	1639.6	1645.1	1660.8	1687.6	1703.4
22.5°	1590.6	1597.1	1616.5	1648.8	1668.2
25°	1535.2	1541.6	1566.6	1603.5	1623.9
27.5°	1472.3	1482.5	1510.2	1550.9	1578.6
30°	1405.8	1414.1	1445.5	1491.7	1514.8
32.5°	1334.6	1344.8	1374.3	1418.7	1439.0
35°	1259.7	1265.3	1294.8	1333.7	1360.5
37.5°	1174.7	1177.5	1205.2	1241.2	1265.3
40°	1083.2	1085.0	1110.0	1144.2	1165.5
42.5°	988.0	988.9	1015.7	1041.6	1060.1
45°	888.2	898.4	920.5	942.7	953.8
47.5°	798.5	805.9	826.3	845.7	855.8
50°	705.2	723.7	737.5	747.7	759.7
52.5°	624.8	640.5	644.2	656.2	666.4
55°	547.1	558.2	554.5	564.7	574.9
57.5°	481.5	476.0	464.0	481.5	494.5
60°	419.6	404.8	384.5	408.5	427.9
62.5°	364.1	340.1	315.2	339.2	371.5
65°	315.2	290.2	259.7	282.8	317.0
67.5°	278.2	252.3	216.3	239.4	273.6
70°	250.5	223.7	186.7	206.1	236.6
72.5°	228.3	199.6	167.3	180.2	206.1
75°	207.0	178.4	155.3	159.0	183.0
77.5°	182.1	160.8	142.3	140.5	159.0
80°	152.5	146.0	123.8	121.1	131.2
82.5°	125.7	122.9	101.7	98.9	102.6
85°	91.5	95.2	72.1	70.2	73.9
87.5°	48.1	52.7	37.9	39.7	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)